

Nu-Metrics Traffic Analyzer Study

Computer Generated Summary Report

City: City of Fairfax

Street: 4016 Burke Station Rd.

A study of vehicle traffic was conducted with HI-STAR unit number 1038. The study was done in the South Bound lane 4016 Burke Station Rd. The study began on 11/03/2003 at 12:00 PM and concluded on 11/07/2003 at 12:00 PM, lasting a total 96 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 14,108 vehicles passed through the location with a peak volume of 506 on 11/03/2003 at 05:00 PM and a minimum volume of 2 on 11/04/2003 at 03:00 AM. The AADT Count for this study was 3,527.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

| Chart 1 | | | | | | | |
|---------|----------|----------|----------|----------|----------|----------|----------|
| 0 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | 35 to 39 | 40 to 44 |
| 0 | 111 | 1001 | 5205 | 5338 | 1293 | 285 | 91 |

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 26 mph with 52.9 percent exceeding the posted speed of 25 mph. The HI-STAR found 3.63 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 29.78 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

| Chart 2 | | | | | | | |
|---------|----------|----------|----------|----------|----------|----------|------|
| 0 to 20 | 21 to 27 | 28 to 39 | 40 to 49 | 50 to 59 | 60 to 69 | 70 to 79 | 80 > |
| 12801 | 485 | 120 | 28 | 1 | 1 | 0 | 0 |

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 13,286 which represents 98.90 percent of the total classified vehicles. The number of Small Trucks in the study was 120 which represents 0.90 percent of the total classified vehicles. The number of Trucks/Buses in the study was 28 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 2 which represents 0.00 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 11/03/2003 at 05:00 PM the average headway between the vehicles was 7.1 seconds. The slowest traffic period was on 11/04/2003 at 03:00 AM. During this slowest period, the average headway was 1200.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 58 and 89 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.